

FIG. 1

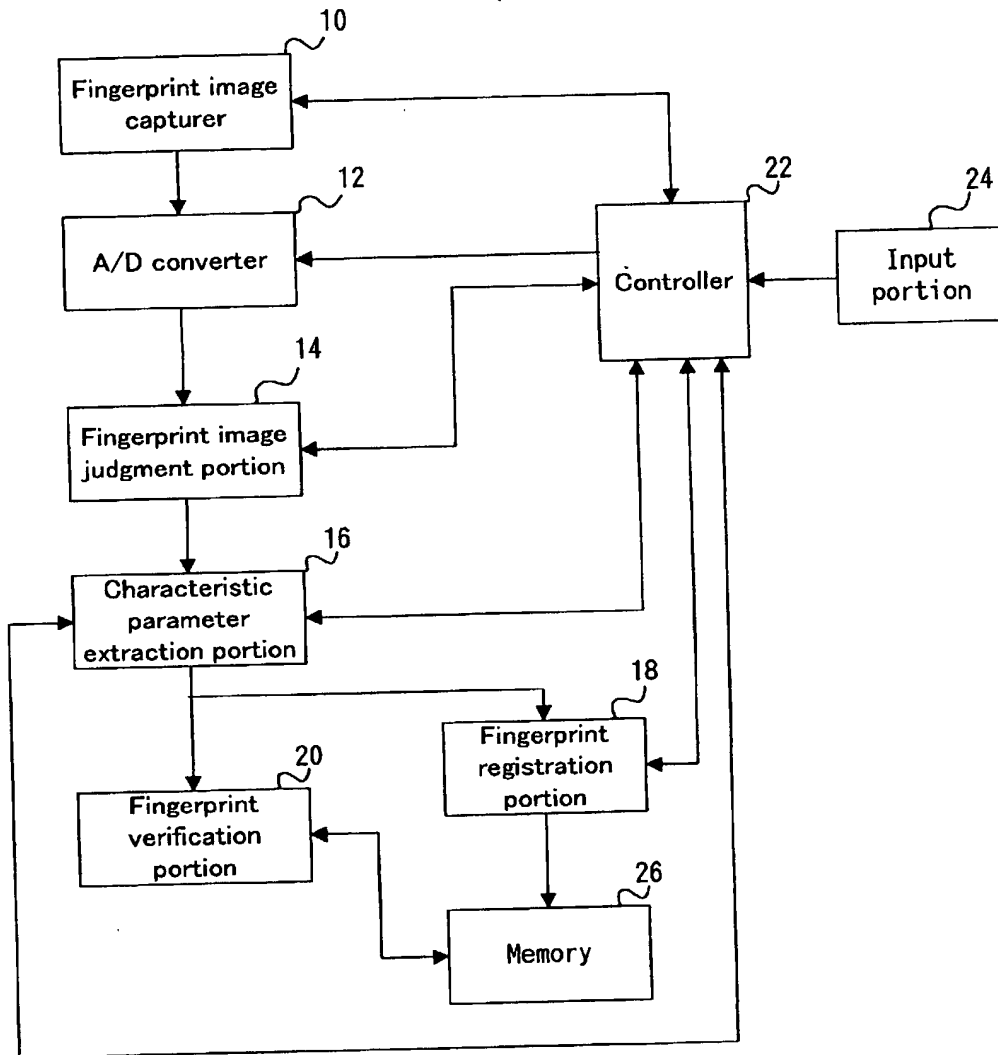


FIG. 2

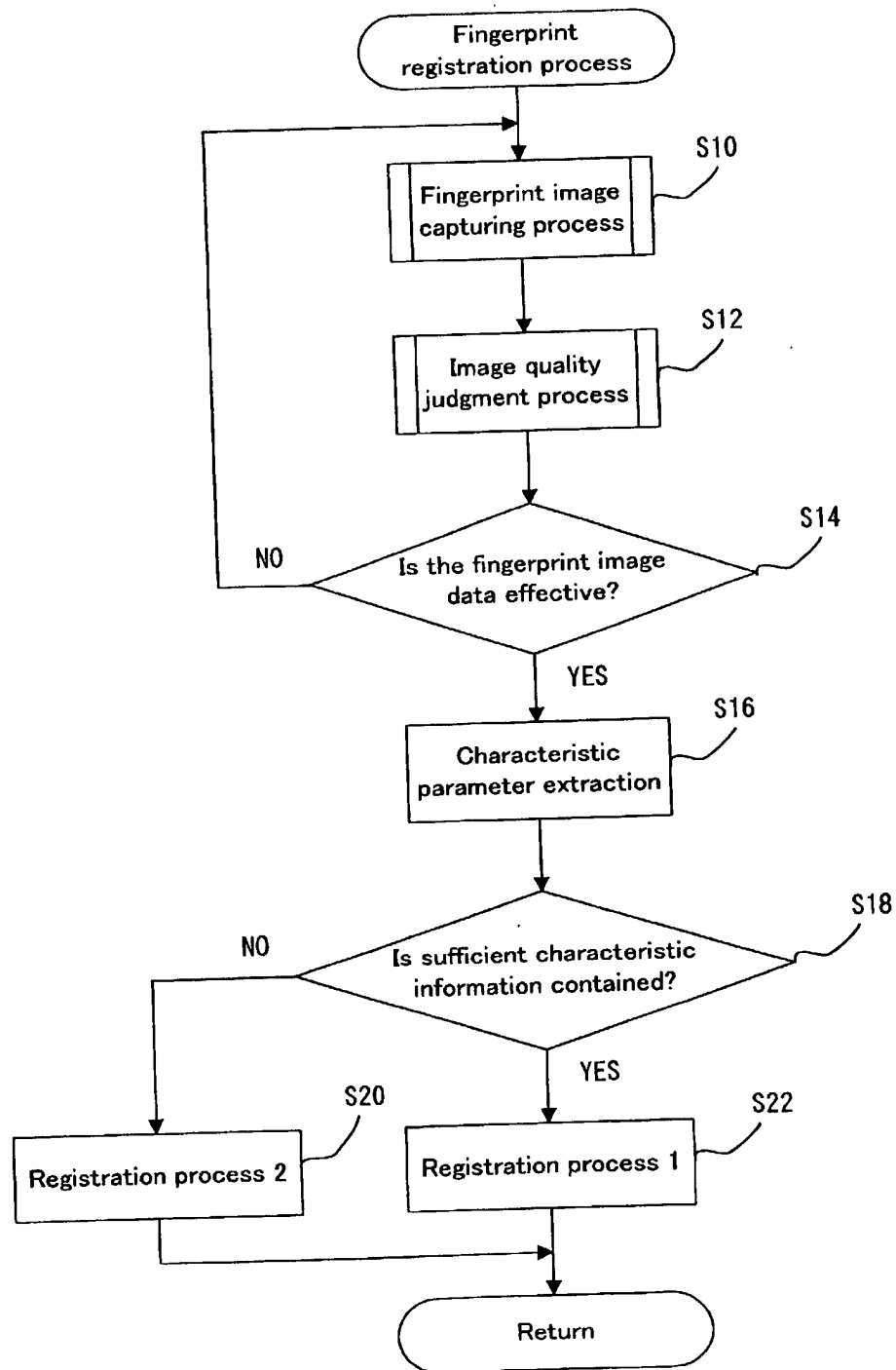


FIG. 3

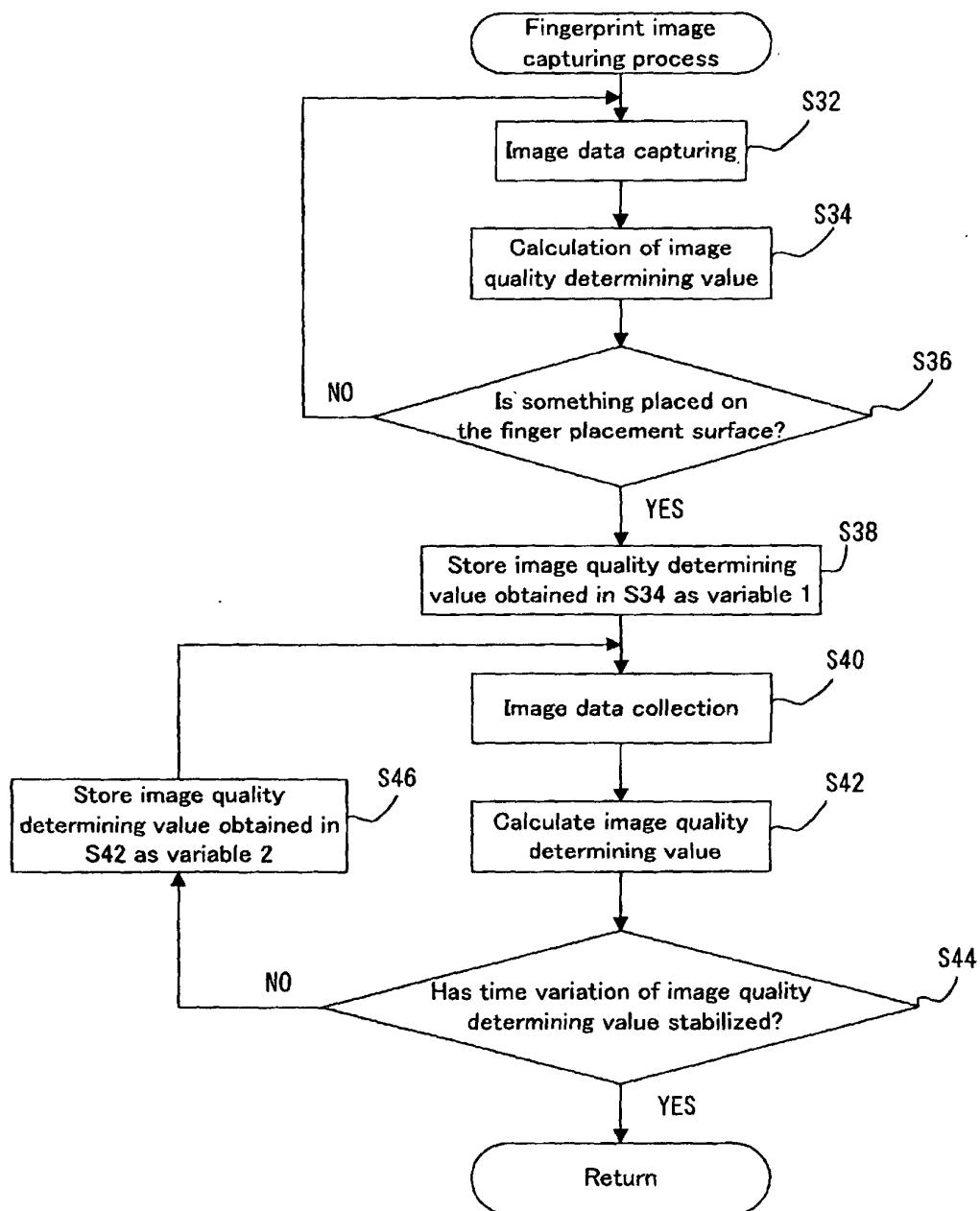


FIG. 4

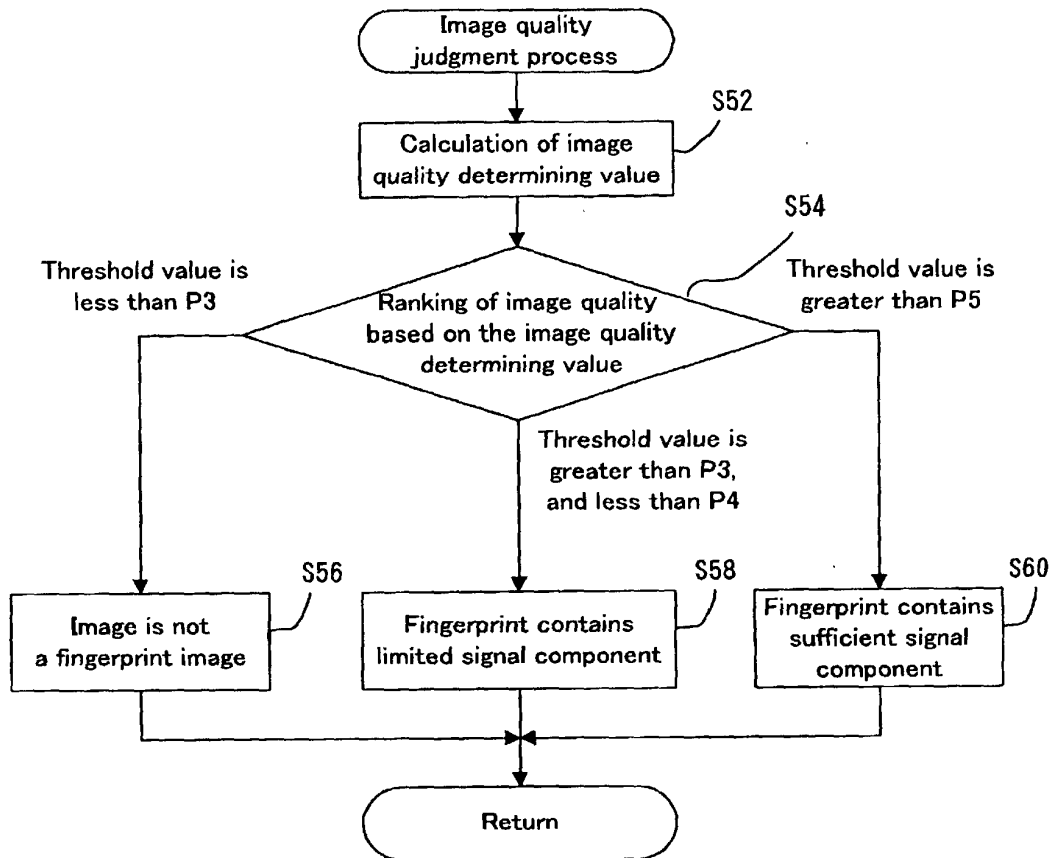


FIG. 5

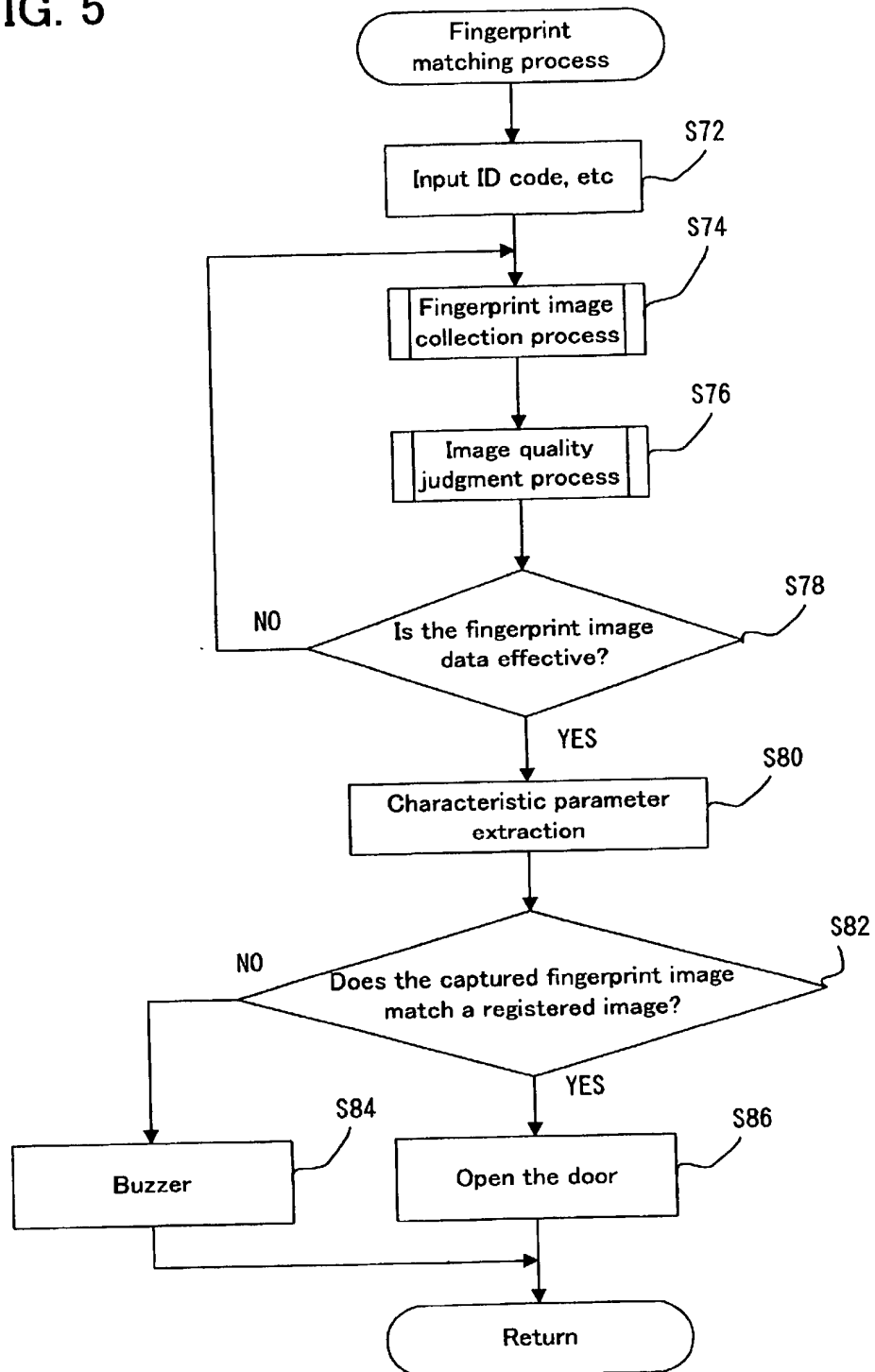
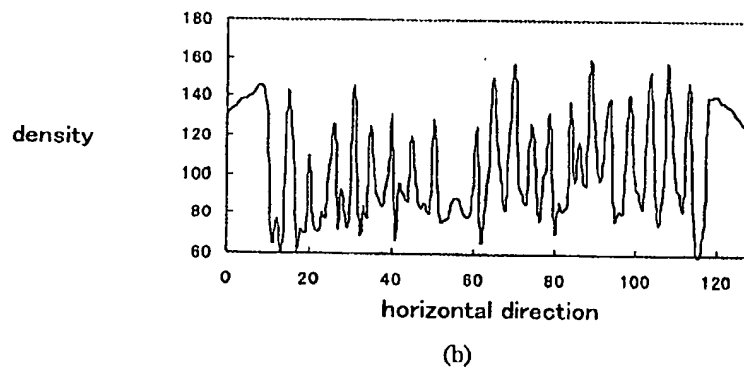
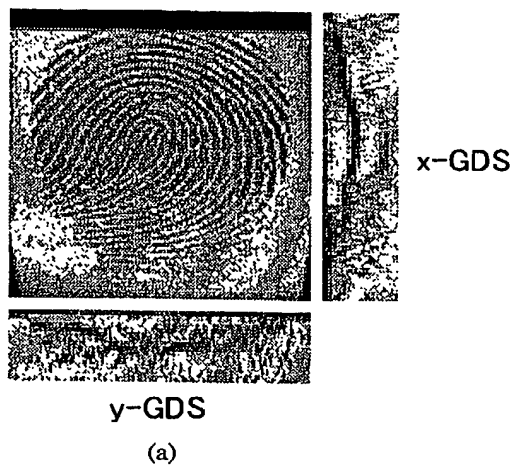


FIG. 6



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FIG. 7

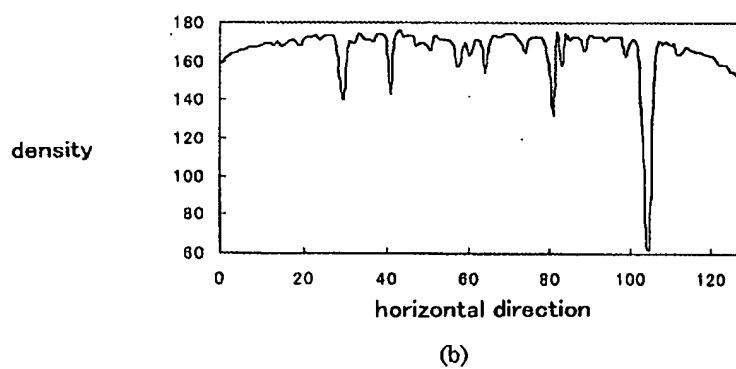
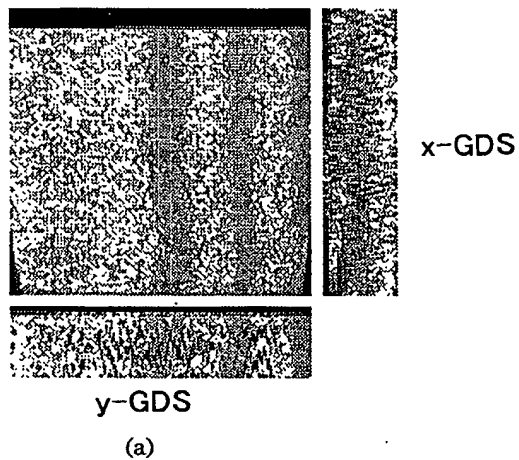


FIG. 8

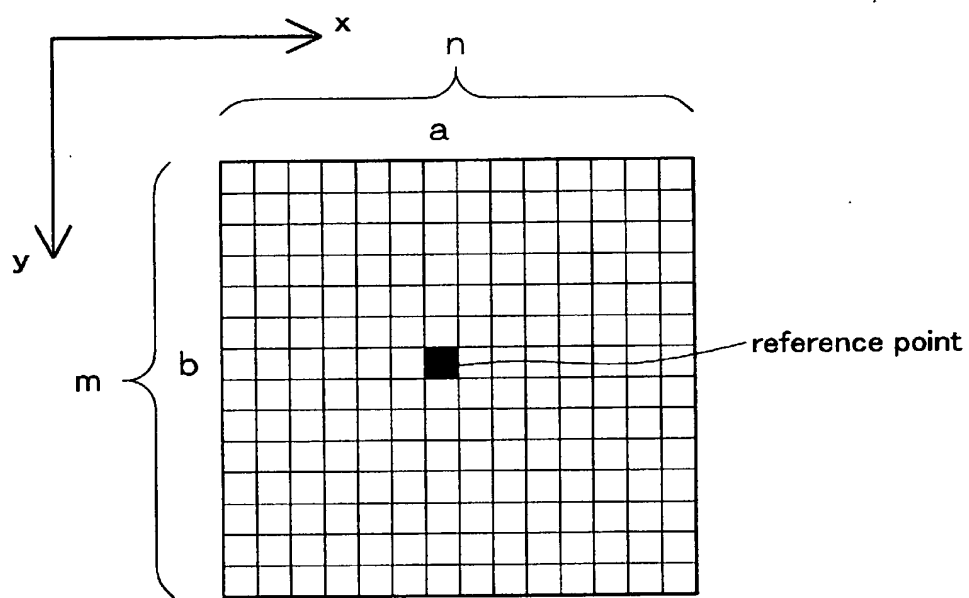




FIG. 9

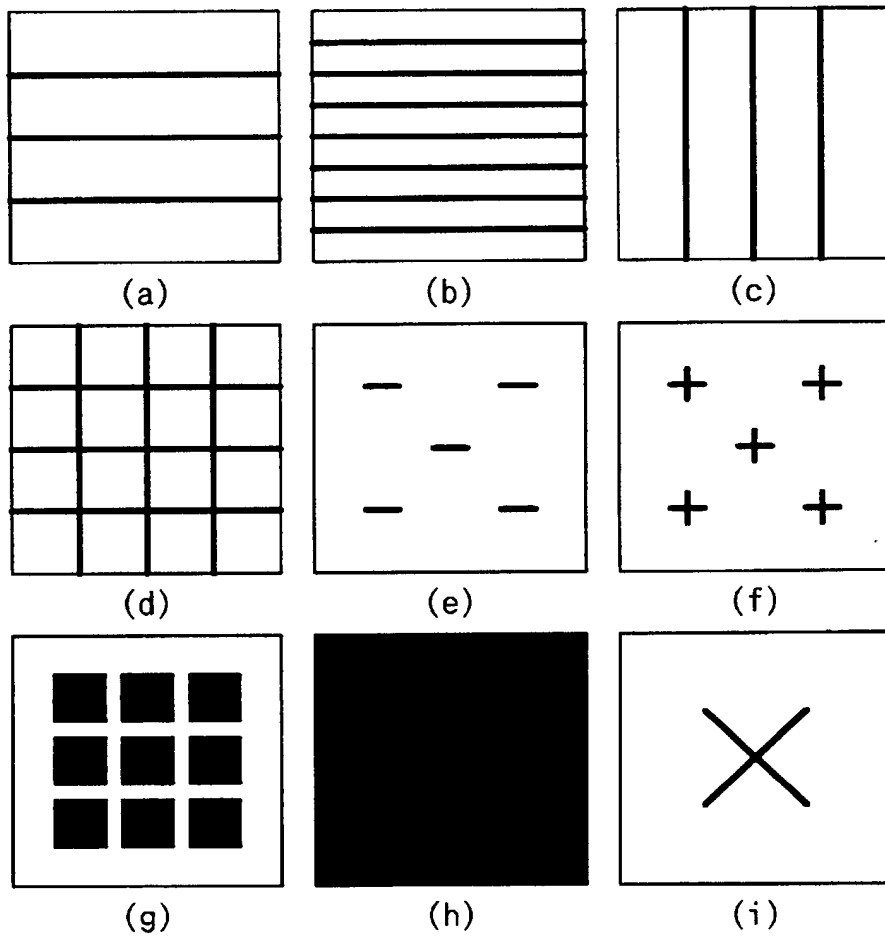


FIG.10

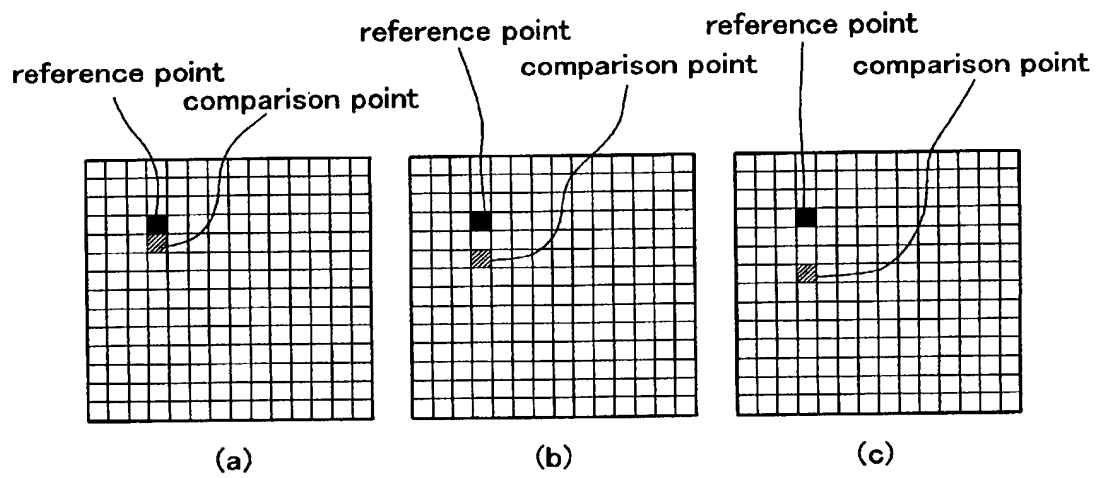


FIG.11

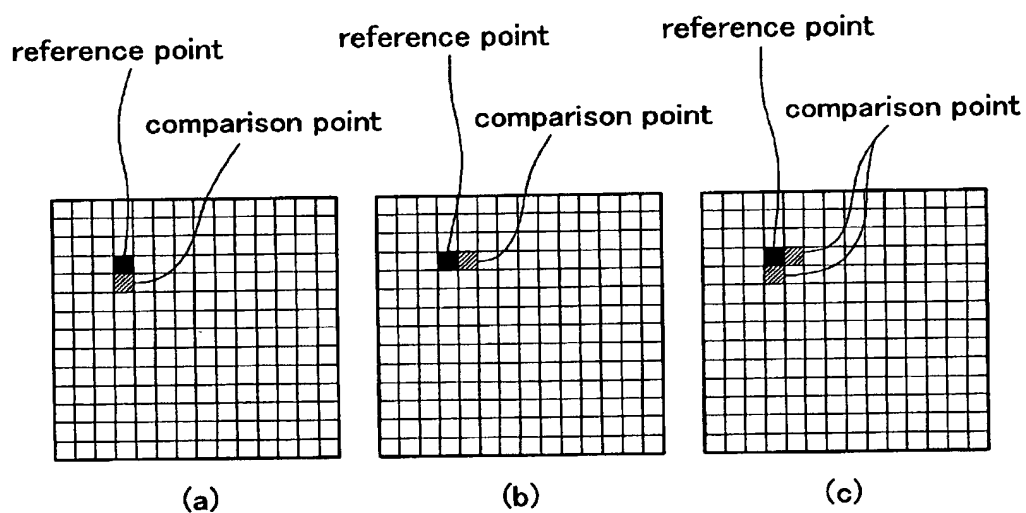


FIG.12

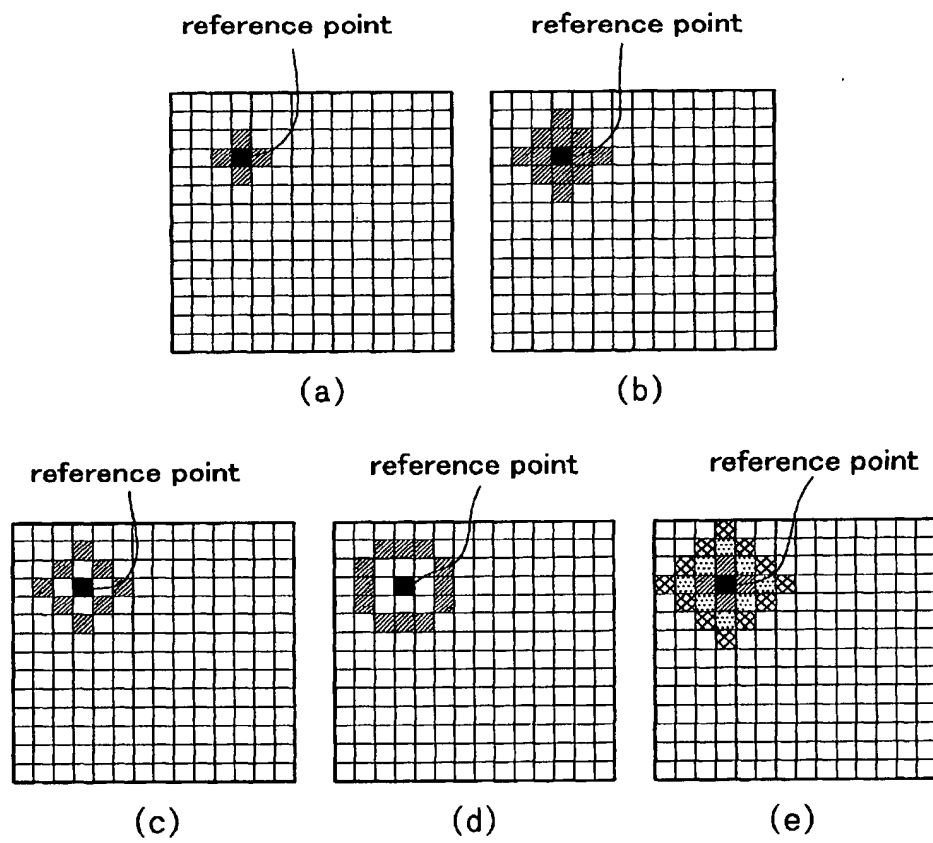


FIG.13

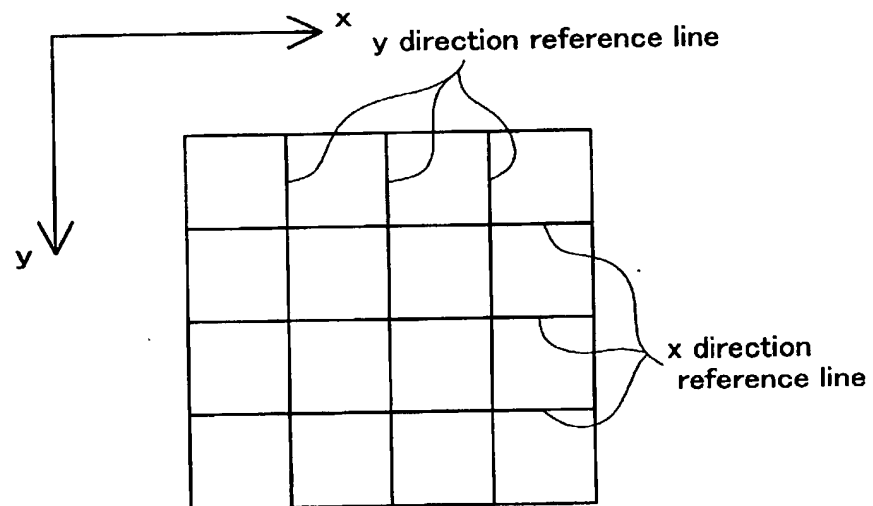


FIG.14

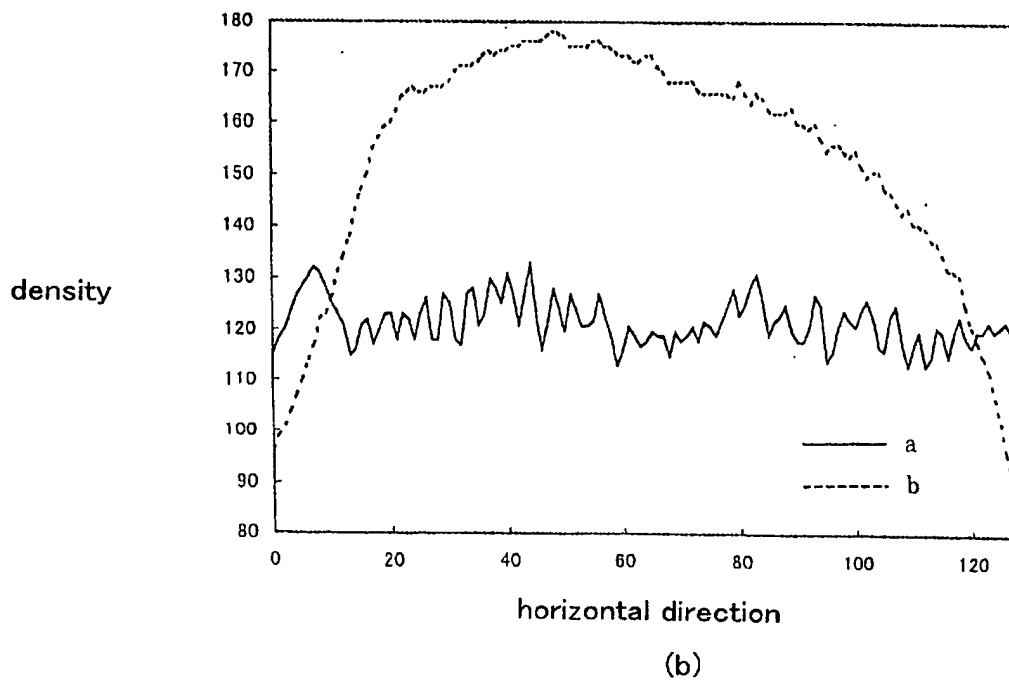
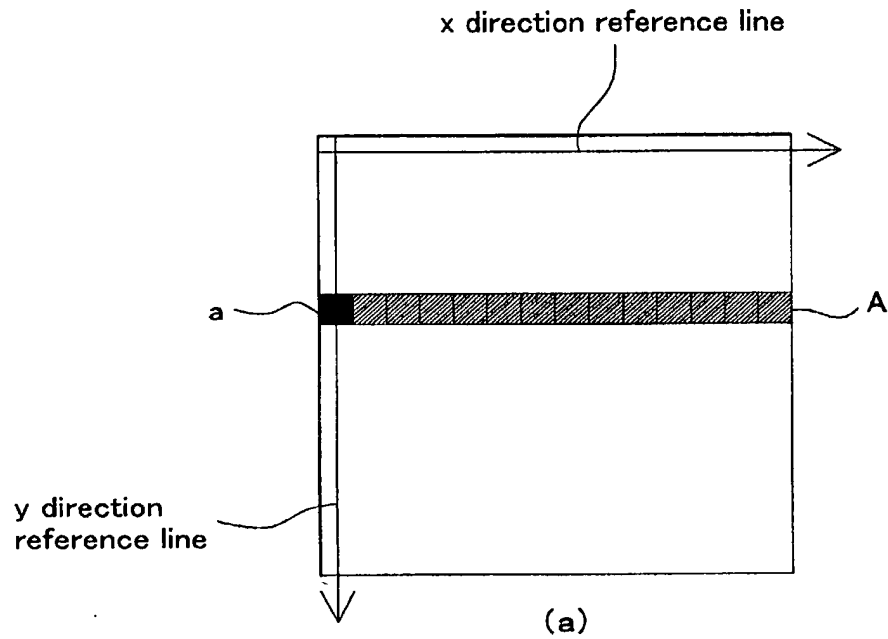


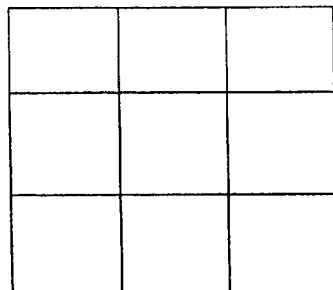
FIG. 15

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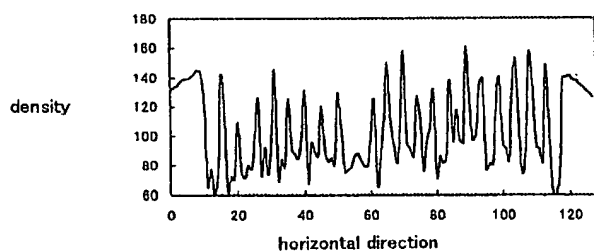
FIG.15

vertical direction (y direction)

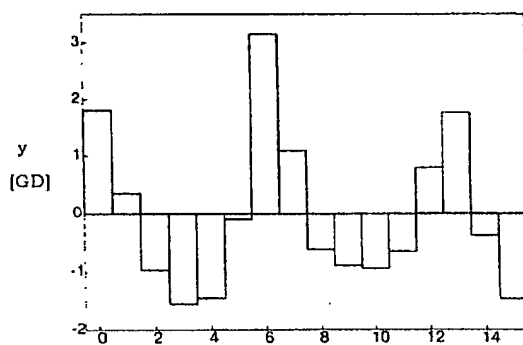


horizontal direction  
(x direction)

(a)



(b)



(c)

FIG.16

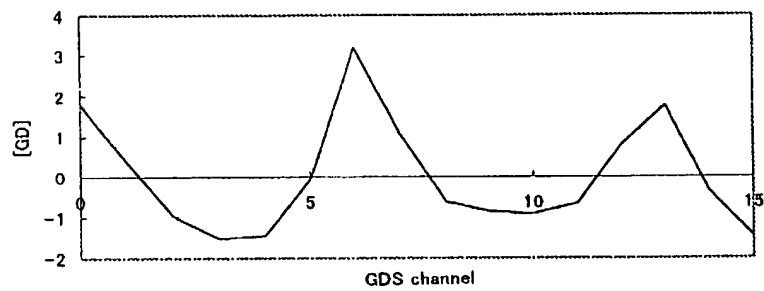
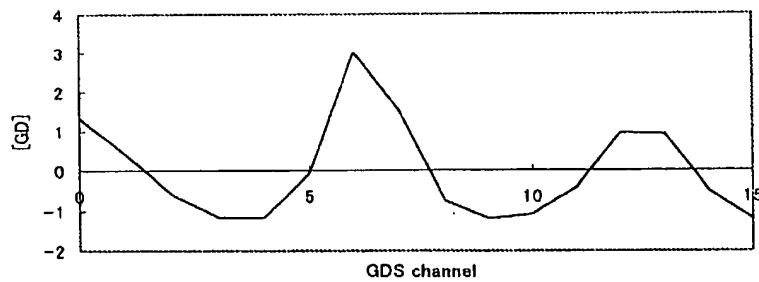
(a) GDS pattern of  $i$ -th line(b) GDS pattern of  $i+1$ -th line



FIG.17

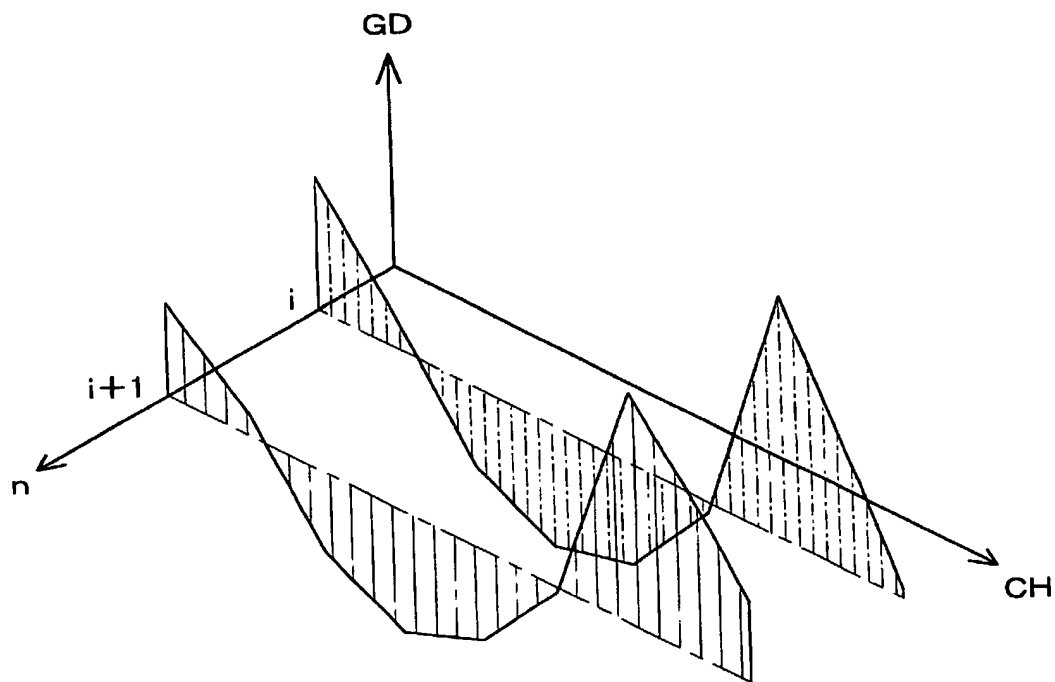


FIG.18

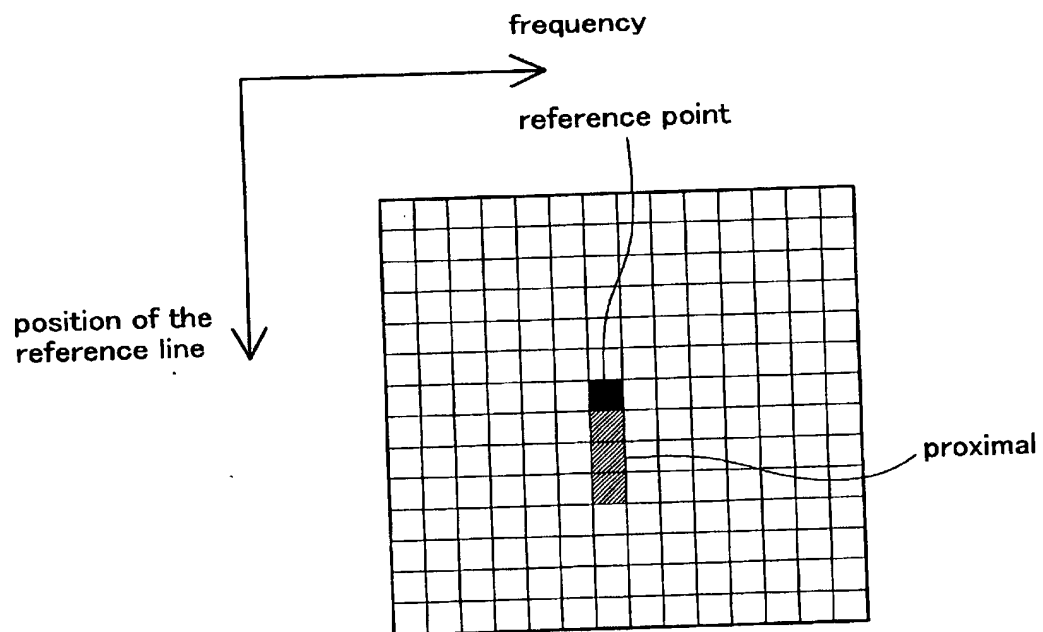


FIG. 19

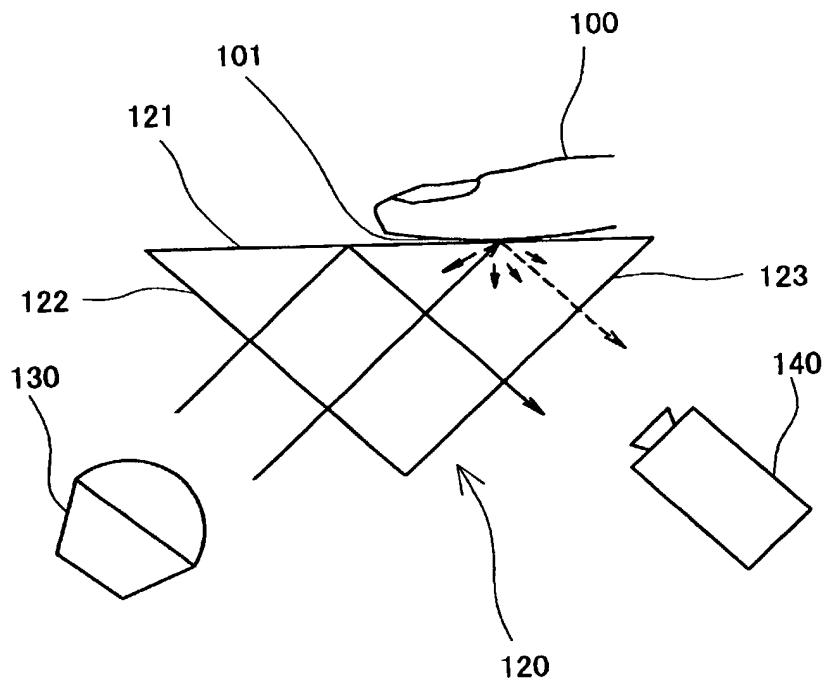
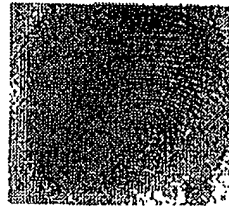
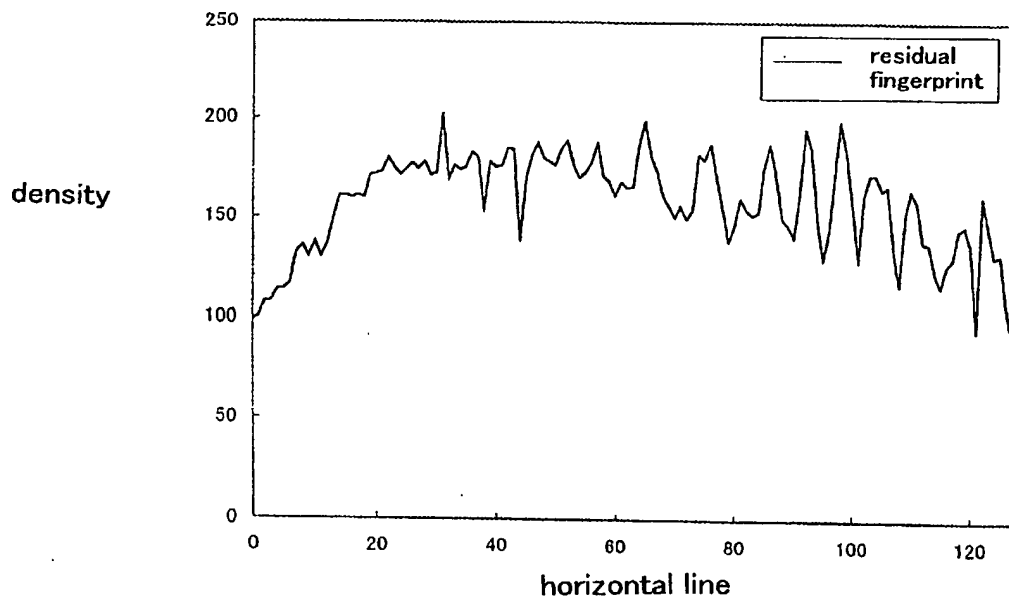


FIG. 20



(a)



(b)

FIG. 21

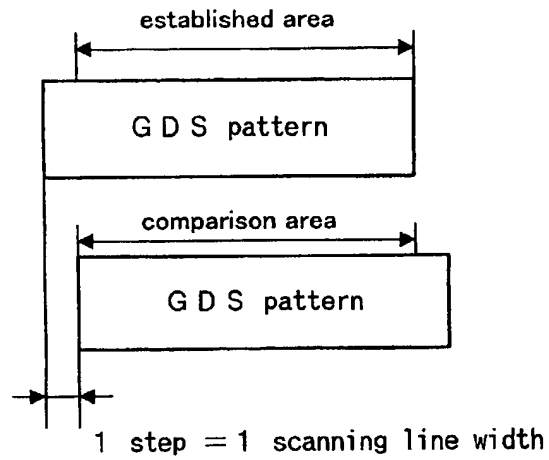


FIG. 22

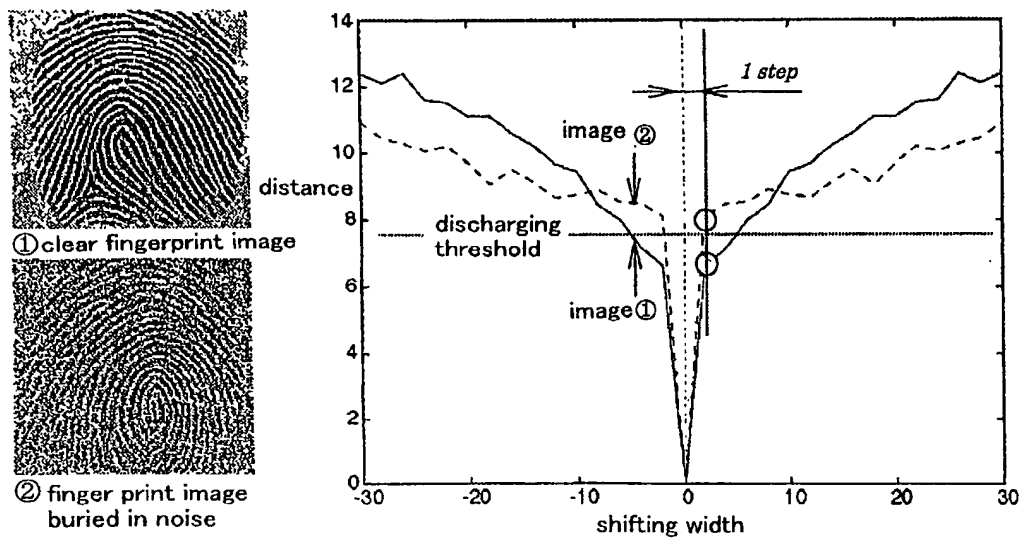


FIG. 23

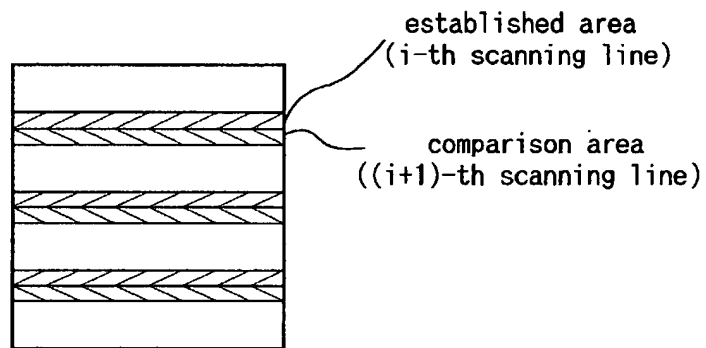


FIG. 24

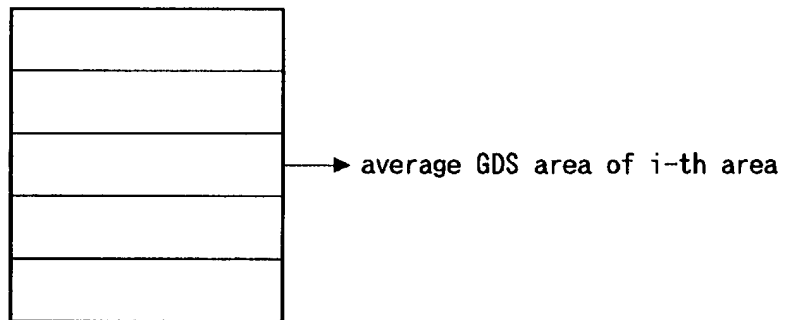
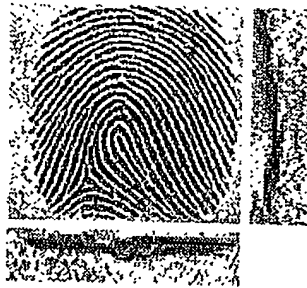


FIG. 25



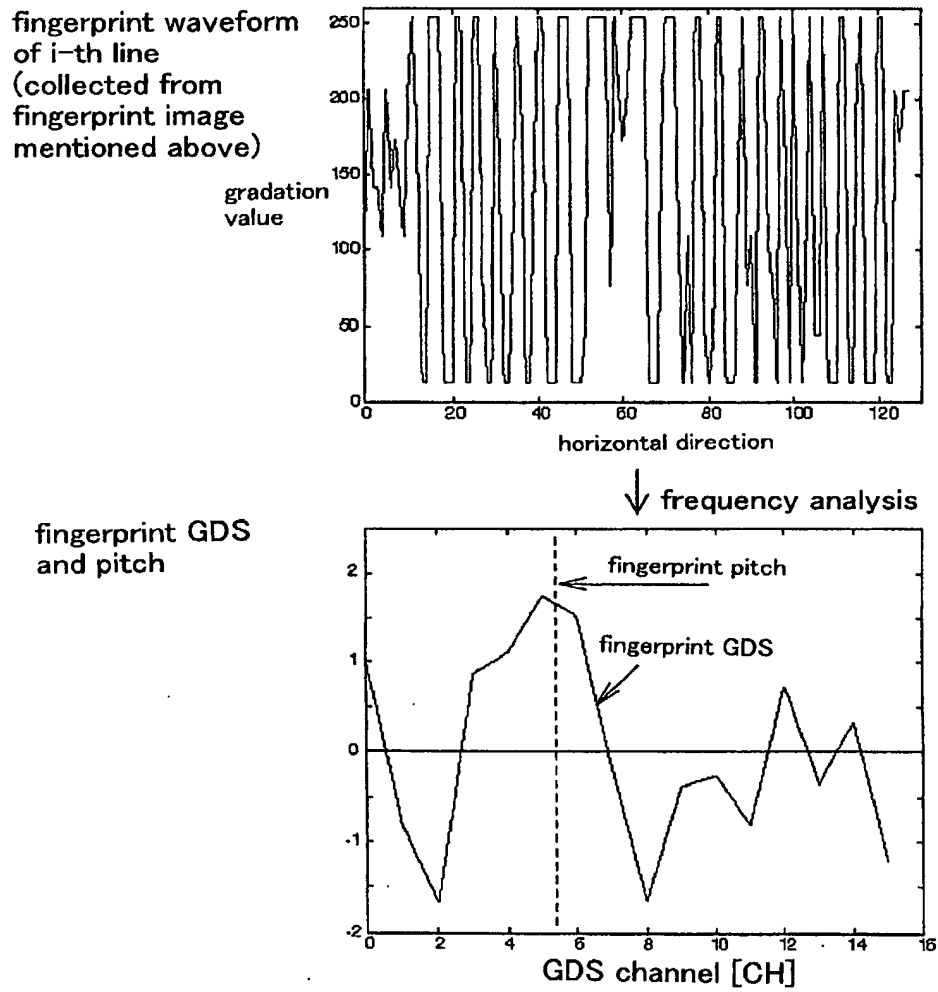
(a) fingerprint GDS



(b) fingerprint pitch

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FIG. 26





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FIG. 27



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